



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/617,447	07/08/2003	Michael A. Meador	LEW 17, 133-3

CONFIRMATION NO. 3486

## FORMALITIES LETTER



\*OC000000010973860\*

26311  
 NASA GLENN RESEARCH CENTER  
 21000 BROOKPARK ROAD  
 OFFICE OF CHIEF COUNSEL; MAIL STOP 500-118  
 CLEVELAND, OH 44135

Date Mailed: 10/02/2003

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

*Filing Date Granted*


An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The specification, claims, or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
  - Papers must be legibly written either by a typewriter or mechanical printer in permanent ink or its equivalent in portrait orientation on flexible, strong, smooth, non-shiny, durable, and white paper. Application papers must be presented in a form having sufficient clarity and contrast between the paper and the writing thereon to permit the direct reproduction of readily legible copies in any number by use of photographic, electrostatic, photo-offset, and microfilming processes and electronic reproduction by use of digital imaging and optical character recognition. Pages 12,16 are not in compliance with 37 CFR 1.52(a).

Replies should be mailed to: Mail Stop Missing Parts  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

  
Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 3 - OFFICE COPY

**Effective OCTOBER 1, 2003**, Patent Fees will be adjusted. Please note that fee amounts required by the enclosed Notice might reflect the fees due on the date of filing. Any fee paid on or after OCTOBER 1, 2003 is subject to the new FY 2004 fee schedule and must be paid in the new amount.

**EXAMPLES OF FEES BEING ADJUSTED**

See [www.uspto.gov](http://www.uspto.gov) for complete FY 2003  
and FY-2004 Fee Schedules

\* Indicates  
fees remain  
at FY 2003  
amount

DESCRIPTION	FY 2003	FY 2004
Basic filing fee - Utility	<b>\$750</b>	<b>\$770</b>
Basic filing fee - Utility (Small Entity)	<b>\$375</b>	<b>\$385</b>
Independent claims in excess of three	<b>\$84</b>	<b>\$86</b>
Independent claims in excess of three (Small Entity)	<b>\$42</b>	<b>\$43</b>
Claims in excess of twenty	<b>\$18</b>	<b>\$18*</b>
Claims in excess of twenty (Small Entity)	<b>\$9</b>	<b>\$9*</b>
Multiple dependent claim	<b>\$280</b>	<b>\$290</b>
Multiple dependent claim (Small Entity)	<b>\$140</b>	<b>\$145</b>
Surcharge - Late filing fee	<b>\$130</b>	<b>\$130</b>
Surcharge - Late filing fee (Small Entity)	<b>\$65</b>	<b>\$65</b>
Design filing fee	<b>\$330</b>	<b>\$340</b>
Design filing fee (Small Entity)	<b>\$165</b>	<b>\$170</b>
Plant filing fee	<b>\$520</b>	<b>\$530</b>
Plant filing fee (Small Entity)	<b>\$260</b>	<b>\$265</b>
Reissue filing fee	<b>\$750</b>	<b>\$770</b>
Reissue filing fee (Small Entity)	<b>\$375</b>	<b>\$385</b>
Reissue independent claims	<b>\$84</b>	<b>\$86</b>
Reissue independent claims (Small Entity)	<b>\$42</b>	<b>\$43</b>
Reissue claims in excess of twenty	<b>\$18</b>	<b>\$18*</b>
Reissue claims in excess of twenty (Small Entity)	<b>\$9</b>	<b>\$9*</b>
Provisional application filing fee	<b>\$160</b>	<b>\$160*</b>
Provisional application filing fee (Small Entity)	<b>\$80</b>	<b>\$80*</b>
Surcharge - Late provisional filing fee	<b>\$50</b>	<b>\$50*</b>
Surcharge - Late provisional filing fee (Small Entity)	<b>\$25</b>	<b>\$25*</b>
Non-English Specification	<b>\$130</b>	<b>\$130*</b>
Extension - First month	<b>\$110</b>	<b>\$110*</b>
Extension - First month (Small Entity)	<b>\$55</b>	<b>\$55*</b>
Extension - Second month	<b>\$410</b>	<b>\$420</b>
Extension - Second month (Small Entity)	<b>\$205</b>	<b>\$210</b>
Extension - Third month	<b>\$930</b>	<b>\$950</b>
Extension - Third month (Small Entity)	<b>\$465</b>	<b>\$475</b>
Extension - Fourth month	<b>\$1,450</b>	<b>\$1,480</b>
Extension - Fourth month (Small Entity)	<b>\$725</b>	<b>\$740</b>
Extension - Fifth month	<b>\$1,970</b>	<b>\$2,010</b>
Extension - Fifth month (Small Entity)	<b>\$985</b>	<b>\$1,005</b>
Petition	<b>\$130</b>	<b>\$130*</b>
Processing returned checks	<b>\$50</b>	<b>\$50*</b>

**For further fee information, please call  
(703-308-HELP)**